

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

RGT 7028

Application Number

09/863,606

Applicant(s)

Liszewicz &amp; Lori

Filing Date

23 May 2001

Group Art Unit

1633

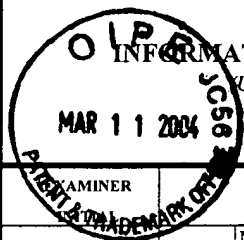
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- | INITIAL |   |
|---------|---|
|         | Bagnarelli, P. et al. Dynamics of molecular parameters of human immunodeficiency virus type 1 activity in vivo. J Virol. 68, 2495-2502 (1994)   |
|         | Zinkernagel, R. M. et al. Antigen localisation regulates immune responses in a dose-and time-dependent fashion: a geographical view of immune reactivity. Immunol Rev 156, 199-209 (1997) |
|         | Lanzavecchia, A. & Sallusto, F. Dynamics of T lymphocyte responses: intermediates, effectors, and memory cells. Science 290, 92-97 (2000)   |
|         | Reinhardt, R. L., Khorus, A., Merica, R., Zell, T. & Jenkins, M. K. Visualizing the generation of memory CD4 T cells in the whole body. Nature 410, 101-105. (2001)                       |
|         | Masopust, D., Vezys, V., Marzo, A. L. & Lefrancois, L. Preferential localization of effector memory cells in nonlymphoid tissue. Science 291, 2413-2417. (2001)                           |
|         | von Andrian, U. H. & Mackay, C. R. T-cell function and migration. Two sides of the same coin. N Engl J Med 343, 1020-1034. (2000)   |
|         | Kirk, C. J. & Mule, J. J. Gene-modified dendritic cells for use in tumor vaccines. Hum Gene Ther 11, 797-806 (2000).  |
|         | Schadendorf, D. & Nestle, F. O. Autologous dendritic cells for treatment of advanced cancer--an update. Recent Results Cancer Res 158, 236-248 (2001).                                    |
|         | Condon, C., Watkins, S. C., Celluzzi, C. M. Thompson, K. & Falo, L. D., Jr. DNA-based immunization by in vivo transfection of dendritic cells. Nat Med 2, 1122-1128 (1996).               |
|         | Tuting, T., Storkus, W. J. & Falo, L. D., Jr. DNA immunization targeting the skin: molecular control of adaptive immunity. J Invest Dermatol 111, 183-188 (1998)                          |
|         | Zanta, M. A., Boussif, O., Adip, A. & Behr, J. P. In vitro gene delivery to hepatocytes with galactosylated polyethylenimine. Bioconj Chem 8, 839-844 (1997)                              |
|         | Monsigny, M., Petit, C. & Roche, A. C. Colorimetric determination of neutral sugars by a resorcinol sulfuric acid micromethod. Anal Biochem 175, 525-530 (1988)                           |

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

RGT 7028

Application Number

09/863,606

Applicant(s)

Liszewicz &amp; Lori

Filing Date

23 May 2002

Group Art Unit

1633

EXAMINER

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Naldini, L. et al. In vivo gene delivery and stable transduction of nondividing cells by a lentiviral vector. *Science* 272, 263-267 (1996)

Fox, C. H. & Cottler-Fox, M. In situ hybridization in HIV research. *J Microscop Tech Res* 25, 78-84 (1993)

Fox, C. H. & Cottler-Fox, M. in *Current Protocols in Immunology* (eds. Coligan, J., Kruisbeek, A., Marguiles, D., Shevach, E. & Strober, W.) (Wiley, New York, 1993).

Lori, F. et al. Control of SIV rebound through structured treatment interruptions during early infection. *Science* 290, 1591, 1593. (2000).

Sallusto, F., Cella, M., Danieli, C. & Lanzavecchia, A. Dendritic cells use macropinocytosis and the mannose receptor to concentrate macromolecules in the major histocompatibility complex class II compartment: downregulation by cytokines and bacterial products. *J Exp Med* 182, 389-400 (1995)

Engering, A. J. et al. Mannose receptor mediated antigen uptake and presentation in human dendritic cells. *Adv Exp Med Biol* 417, 183-187 (1997)

Takahashi, K., Donovan, M. J., Rogers, R. A. & Ezekowitz, R. A. Distribution of murine mannose receptor expression from early embryogenesis through to adulthood. *Cell Tissue Res* 292, 311-323 (1998)

Diebold, S. S., Kursa, M., Wagner, E., Cotten, M. & Zenke, M. Mannose polyethylenimine conjugates for targeted DNA delivery into dendritic cells. *J Biol Chem* 274, 19087-19094 (1999)

Liszewicz, J. et al. Induction of Potent HIV-1-specific T Cell Restricted Immunity by Genetically-modified Dendritic Cells. *J Virol* (Submitted) 2001)

Erbacher, P. et al. Transfection and physical properties of various saccharide, poly(ethylene glycol), and antibody-derivatized polyethylenimines (PEI). *J Gen Med* 1, 210-222 (1999)

Goula, D. et al. Size, diffusibility and transfection performance of linear PEI/DNA complexes in the mouse central nervous system. *Gene Ther* 5, 712-717 (1998).

Larsen, C. P. et al. Migration and maturation of Langerhans cells in skin transplants and explants. *J Exp Med* 172, 1483-1493 (1990)

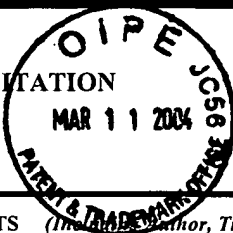
EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

RGT 7028

Application Number

09/863,606

Applicant(s)

Liszewicz & Lori

Filing Date

23 May 2001

Group Art Unit

1633

\*EXAMINER  
INITIAL

## OTHER DOCUMENTS

(Include Author, Title, Date, Pertinent Pages, Etc.)

Corbet, S. et.al. Construction, Biological Activity, and Immunogenicity of Synthetic Envelope DNA Vaccines Based on a Primary, CCR5-Tropic, Early HIV Type I Isolate (BX08) with Human Codons AIDS Res Hum Retroviruses 16, 1997-2008 (2000)

Liszewicz, J et al. Control of HIV despite the discontinuation of antiretroviral Therapy N Engl J Med 340, 1683-1684 (1999)

Daniel, M.D., Kirchoff, F., Czajak, S. C., Sehgal, P. K. & Desrosiers, R. C. Protective effects of a live attenuated SIV vaccine with a deletion in the nef gene. Science 258, 1938-1941 (1992)

Rowland-Jones, S. et al. HIV-specific cytotoxic T-cells in HIV-exposed but uninfected Gambian women. Nat Med 1, 59-64 (1995)

Almond, N. et al. Protection by attenuated simian immunodeficiency virus in macaques against challenge with virus-infected cells. Lancet 345, 1342-1344 (1995)

Larsen, C. P. & Austyn, J. M. Langerhans cells migrate out of skin grafts and cultured skin: a model in which to study the mediators of dendritic leukocyte migration. Transplant Proc. 23, 117-119 (1991)

Pope, M. et al. Dendritic cell-T cell conjugates that migrate from normal human skin are an explosive site of infection for HIV-1. Adv Exp Med Biol 378, 457-460 (1995)

Dieu-Nosjean, M. C., Vicari, A., Lebecque, S. & Caux, C. Regulation of dendritic cell trafficking: a process that involves the participation of selective chemokines. J Leukoc Biol 66, 252-262 (1999)

Boussif, O. et al. A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: polyethylenimine. Proc Nat'l Sci U S A 92, 7297-7301 (1995)

Pollard, H. et al. Polyethylenimine but not cationic lipids promotes transgene delivery to the nucleus in mammalian cells. J Biol Chem 273, 7507-7511 (1998)

Akbari, O. et al. DNA vaccination: transfection and activation of dendritic cells as key events for immunity. J Exp Med 189, 169-178 (1999)

Rosenberg, E. S. et al. Immune Control of HIV-1 after early treatment of acute infection. Nature 407, 523-526 (2000)

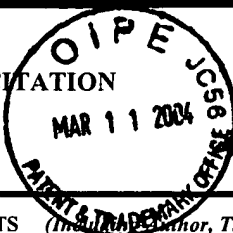
EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

RGT 7028

Application Number

09/863,606

Applicant(s)

Liszewicz & Lori

Filing Date

23 May 2001

Group Art Unit

1633

\*EXAMINER  
INITIAL

## OTHER DOCUMENTS

(Include Author, Title, Date, Pertinent Pages, Etc.)

Steinman, R., Hoffman, L. & Pope, M. Maturation and migration of cutaneous dendritic cells. J Invest Dermatol 105, 2S-7S (1995)

Lukas, M. et al., Human cutaneous dendritic cells migrate through dermal lymphatic vessels in a skin organ culture model. J. Invest Dermatol 106 1293-1299 (1996)

Matsue, H., Bergstresser, P. R. & Takashima, A. Reciprocal cytokine-mediated cellular interactions in mouse epidermis; promotion of gamma delta T-cell growth by IL-7 and TNF alpha and inhibition of keratinocyte growth by gamma IFN. J Invest Dermatol 101, 543-548 (1993)

Foster, C. A., et al., Human epidermal T cells predominantly belong to the lineage expressing alpha/beta T cell receptor. J Exp Med 171, 997-1013 (1990)

Steinman, R. M., Pack, M. & Inaba, K. Dendritic cells in the T-cell areas of lymphoid organs. Immunol Rev 156, 25-37 (1997)

Karlsson, G. B. et al. Characterization of molecularly cloned simian-human immunodeficiency viruses causing rapid CD4+ lymphocyte depletion in rhesus monkeys. J Virol 71, 4218-4225. (1997)

Reimann, K. A. et al. A chimeric simian-human immunodeficiency virus expressing a primary patient human immunodeficiency virus type 1 isolate env causes an AIDS-like disease after in vivo passage in rhesus monkeys. J Virol 70, 6922-6928 (1996)

Stevenson, M., Stanwick, T. L., Dempsey, M. P. & Lamonica, C. A. HIV-1 replication is controlled at the level of T cell activation and proviral integration. Embo J 9, 1551-1560

Naldini, L., Blomer, U., Gage, F. H., Trono, D. & Verma, I. M. Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. Proc Natl Acad Sci USA 93, 11382-11388 (1996)

Riddell, S. R. et al. T-cell mediated rejection of gene-modified HIV-specific cytotoxic T lymphocytes in HIV-infected patients. Nat Med 2, 216-223 (1996)

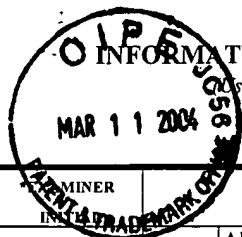
Morgan, R. A. & Walker, R. Gene therapy for AIDS using retroviral mediated gene transfer to deliver HIV-1 antisense TAR and transdominant REV protein genes to syngenic lymphocytes in HIV-1 infected identical twins. Hum Gene Ther 7, 1281-1306 (1996)

Barouch, D. H. & Letvin, N. L. DNA vaccination for HIV-1 and SIV. Intervirolog 43, 282-287 (2000)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

RGT 7028

Application Number

09/863,606

Applicant(s)

Liszewicz &amp; Lori

Filing Date

23 May 2001

Group Art Unit

1633

EXAMINER  
INITIALS

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Ahuja, S. S. et al. Dendritic cell (DC)-based anti-infective strategies: DCs engineered to secrete IL-12 are a potent vaccine in a murine model of an intracellular infection. J Immunol 163, 3890-3897 (1999)

Takayama, T., Tahara, H. & Thomson, A. W. Transduction of dendritic cell progenitors with a retroviral vector encoding viral interleukin-10 and enhanced green fluorescent protein allows purification of potentially tolerogenic antigen-presenting cells. Transplantation 68, 1903-1909 (1999)

Ozawa, H. et al. Granulocyte-macrophage colony-stimulating factor gene transfer to dendritic cells or epidermal cells augments their antigen-presenting function including induction of anti-tumor immunity. J Invest Dermatol 113, 999-1005 (1999)

Melero, I. et al. Intratumoral injection of bone-marrow derived dendritic cells engineered to produce interleukin-12 induces complete regression of established murine transplantable colon adenocarcinomas. Gene Ther 6, 1779-1784 (1999)

Lu, L. et al. Genetic engineering of dendritic cells to express immunosuppressive molecules (viral IL-10, TGF-beta, and CTLA4Ig). J Leukoc Biol 66, 293-296 (1999)

Sansone, G. R. & Frengley, J. D. Impact of HAART on causes of death of persons with late-stage AIDS J Urban Health 77, 166-75. (2000)

Carcelain, G., et al. Transient mobilization of human immunodeficiency virus (HIV)-specific CD4 T-helper cells fails to control virus rebounds during intermittent antiretroviral therapy in chronic HIV type 1 infection. J Virol 75, 234-41. (2001)

Rosenberg, E. S., LaRosa, L., Flynn, T., Robbins, G. & Walker, B. D. Characterization of HIV-1-specific T-helper cells in acute and chronic infection. Immunol Lett 66, 89-93. (1999)

Havlic, D. V., et al. Maintenance Antiretroviral Therapies in HIV-infected Subjects with Undetectable Plasma HIV RNA after Triple-Drug Therapy N Engl J Med 339, 1261-1268. (1998).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# **INFORMATION DISCLOSURE CITATION**

*(Use several sheets if necessary)*

Docket Number (Optional)

**RGT 7028**

Application Number

**09/863,606**

Applicant(s)

**Lisiewicz & Lori**

Filing Date

**23 May 2001**

Group Art Unit

**1633**

**\*EXAMINER  
INITIAL**

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Ridge, et al., Neonatal Tolerance Revisited: Turning on Newborn T Cells with Dendritic Cells. Science 271: 1723-1726 (1996)

Sarzotti, et al., Induction of Protective CTL Responses in Newborn Mice by a Murine Retrovirus. Science 271: 1726-1728 (1996)

Clerici, et al., T-cell proliferation to subinfectious SIV correlates with lack of infection after challenge of macaques. AIDS: 8: 1391-95 (1994)

Arthur, et al., A comparison of gene transfer methods in human dendritic cells. Cancer Gene Therapy 4:1 17-25 (1997)

Song, et al., Antigen Presentation in retroviral vector-mediated gene transfer in vivo. Proc Natl Acad Sci U S A 94: 1943-8 (1997)

Watts, C., Inside the gearbox of the Dendritic Cell. Nature 338: 724-725 (1997)

Stahl, et al., Receptor-Mediated Pinocytosis of Mannose Glycoconjugates by Macrophages: Characterization and Evidence for Receptor Recycling. Cell 19: 207-215 (1980)

Goldstein, et al., Receptor-Mediated Endocytosis: Concepts Emerging from the LDL Receptor System. Annu Rev Cell Biol 1:1 (1985)

Engering, et al., The mannose receptor functions as a high capacity and broad specificity antigen receptor in human dendritic cells. Eur J Immunol 27: 2417-2425 (1997)

Canque, et al., The effect of in vitro human immunodeficiency virus infection on dendritic-cell differentiation and function. Blood 88:11 4215-4228 (1996)

Bender, et al., Improved methods for the generation of dendritic cells from nonproliferating progenitors in human blood. Immunol Methods 196:2 121-35 (1996)

Reiser, et al., Transduction of nondividing cells using pseudotyped defective high-titer HIV type 1 particles. Proc Natl Acad Sci U S A 93: 15266-15271 (1996)

**EXAMINER**

**DATE CONSIDERED**

**\*EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.